PROTOPLASMA

Edited by / Herausgegeben von

G. B. Bouck, Chicago, III.

T. W. Goodwin, Liverpool

B. E. S. Gunning, Canberra

O. Kiermayer, Salzburg

K. R. Porter, Boulder, Colo.

J. Reinert, Berlin

E. Schnepf, Heidelberg

Vol. 97, 1978 ISSN 0033-183X



Springer-Verlag Wien · New York

Protoplasma

Editorial Advisory Board / Fachbeirat

H. J. Arnott, Arlington, Tex.	H. Moor, Zürich
D. Branton, Cambridge, Mass.	D. J. Morré, West Lafayette, Ind.
H. Clauss, Berlin	K. Mühlethaler, Zürich
E. C. Cocking, Nottingham	W. Nagl, Kaiserslautern
F. D'Amato, Pisa	E. H. Newcomb, Madison, Wis.
F. Duspiva, Heidelberg	H. Northcote, Cambridge
W. W. Franke, Heidelberg	T. P. O'Brien, Clayton, Vic.
P. K. Hepler, Stanford, Calif.	A. W. Robards, Heslington, York
R. G. Herrmann, Düsseldorf	H. G. Schweiger, Ladenburg
J. Heslop-Harrison, Richmond	A. Sievers, Bonn
J. K. Heyes, Wellington	H. Swift, Chicago, III.
H. W. Israel, Ithaca, N.Y.	M. Tazawa, Tokyo
N. Kamiya, Okazaki	W. W. Thomson, Riverside, Calif.
H. Kinzel, Wien	W. Vogell, Düsseldorf
R. Kollmann, Kiel	M. M. Yeoman, Edinburgh

The exclusive copyright for all languages and countries, including the right for photomechanical and any other reproductions including microform is transferred to the publisher.

Alle Rechte, einschließlich das der Übersetzung in fremde Sprachen und das der photomechanischen Wiedergabe oder einer sonstigen Vervielfältigung, auch in Mikroform, vorbehalten.

© 1978 by Springer-Verlag / Wien

Contents / Inhalt

G. F. Leedale, Leeds

Original Papers Abhandlungen	
Apostolakos, P., s. Galatis, B	1
Beevers, H., s. Donaldson, R. P	31
Behnke, HD., and G. Eschibeck: Dilated Cisternae in Capparales—an Attempt Towards the Characterization of a Specific Endoplasmic Reticulum	35
Bowen, I. D., and J. A. Bryant: The Fine Structural Localization of p-Nitrophenyl Phosphatase Activity in the Storage Cells of Pea (Pisum sativum L.) Cotyledons	24
Bryant, J. A., s. Bowen, I. D	24
Casadoro, G., and Nicoletta Rascio: Chloroplast Ontogenesis in Helianthus annual I	16

IV Contents / Inhalt

Olson, L. W., and L. Lange: The Meiospore of <i>Physoderma maydis</i> . The Causal Agent of <i>Physoderma</i> Disease of Maize	275
Olson, L. W., and R. Reichle: Synaptonemal Complex Formation and Meiosis in the Resting Sporangium of Blastocladiella emersonii	261
Paradles, H. H., and W. Vettermann: Conformation of the High Molecular Weight Form of Dunaliella salina Phosphofructokinase in Solution by Means of Small-Angle X-Ray Diffraction and Viscosity Measurements	137
Pelcher, L. E., S. Kool, A. J	71
Rasclo, Nicoletta, s. Casadoro, G	165
Reichle, R., S. Olson, L. W	261
Schmid, R., S. Koop, HU.	301
Schnepf, E., U. Stein, and G. Deichgräber: Structure. Function, and Development of	301
the Peristome of the Moss, Rhacopilum tomentosum, With Special Reference to the Problem of Microfibril Orientation by Microfubules	221
Short, K. C., s. Dunstan, D. I	251
Stein, U., s. Schnepf, E	221
Tan, Kyoko, and Katsumi Ueda: Rapid Degeneration of the Protoplasm in Artificially Induced Small Cells of Micrasterias crux melitensis	61
Thomas, E., s. Dunstan, D. I	251
Tietz, A., s. Kushnir, E	47
Url, W. G., s. Gerdenitsch, Waltraud	31
Ueda, Katsumi, s. Tan, Kyoko	61
Vettermann, W., s. Paradies, H. H	137
Wallin, Anita, s. Glimelius, Kristina	291
West, J. A., s. La Claire II, J. W	93
Wrischer, Mercedes: Ultrastructural Localization of Diaminobenzidine Photooxidation	
in Etiochloroplasts	85
Brief Reports Kurze Mitteilungen	
Cleślawska, M., s. Grębecki, A	365
Grebeckl, A., and M. Cleślawska: Dynamics of the Ectoplasmic Walls During Pulsation of Plasmodial Veins of Physarum polycephalum	365
Herth, W., s. Reiss, HD	373
Keister, D. L., s. Ranga Rao, V	311
Ranga Rao, V., and D. L. Kelster: Infection Threads in the Root Hairs of Soybean (Glycine max) Plants Inoculated With Rhizobium japonicum.	311
Reiss, HD., and W. Herth: Visualization of the Ca2+-Gradient in Growing Pollen	
Tubes of Lilium longiflorum With Chlorotetracycline Fluorescence	373
Vian, Brigitte: On the Interpretation of Twisted Patterns in Elongating Plant Cell Wall: Informations Obtained With Ultracryotomy	379

Listed in Current Contents

